STIC Search Results Feedback Form

3

EIC 2800

Questions about the scope or the results of the search? Contact ***the EIC searcher or contact:***

Jeff Harrison, EIC 2800 Team Leader
571-272-2511, JEF 4B68

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* ☐ *Example: 2810*
- *Relevant prior art **found**, search results used as follows:*
  - ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
  (journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art **not found:***
  - ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC EIC2800, CP4-9C18

STIC Search Report
EIC 2800

STIC Database Tracking Number 155043

TO: Dave Ghatt **Location: JEF-9A39** **Art Unit : 2854** **Wednesday, June 01, 2005** **Case Serial Number: 09/626042**	**From: Irina Speckhard** **Location: EIC 2800** **JEFF-4B59** **Phone: (571) 272-2554** **irina.speckhard@uspto.gov**

Search Notes

Examiner Ghatt,

Please find attached prior-art search results from the patent and non-patent abstract and full-text databases. The results were based on claims and statements of technical problems and solutions. Tagged records might be worth your review as well as the rest of the references provided.

If you need further searching or have questions or comments, please let me know.

Thank you,

Irina Speckhard

155043

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 5/21/05 Serial # 09/626,042 Priority Application Date _____

Your Name Dave Ghatt Examiner # _____

AU 2854 Phone 22165 Room 9A34

In what format would you like your results? Paper is the default. (PAPER) DISK EMAIL

If submitting more than one search, please prioritize in order of need.

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case? 6-01-05 9:37 PAIR 6-01-05 A09:32 IN

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. _____

What types of references would you like? Please checkmark:

Primary Refs ___ Nonpatent Literature ___ Other _____

Secondary Refs ___ Foreign Patents ___

Teaching Refs ___

What is the topic, such as the **novelty**, motivation, utility, or other specific facets defining the desired **focus** of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Clms 4, 5, [redacted]

Staff Use Only	Type of Search	Vendors
Searcher: Sheela Veerl	Structure (#) ____	STN ____
Searcher Phone: ____	Bibliographic ✓	Dialog ✓
Searcher Location: STIC-EIC2800, JEF-4B68	Litigation ____	Questel/Orbit ____
Date Searcher Picked Up: 6/1/05	Fulltext ✓	Lexis-Nexis ____
Date Completed: ____	Patent Family ✓	WWW/Internet ____
Searcher Prep/Rev Time: 100	Other AEL	Other ____
Online Time: 100		

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SYSTEM:OS  - DIALOG OneSearch
  File   2:INSPEC 1969-2005/May W4
         (c) 2005 Institution of Electrical Engineers
  File   6:NTIS 1964-2005/May W4
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
  File   8:Ei Compendex(R) 1970-2005/May W3
         (c) 2005 Elsevier Eng.  Info. Inc.
  File  34:SciSearch(R) Cited Ref Sci 1990-2005/May W4
         (c) 2005 Inst for Sci Info
  File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
  File  35:Dissertation Abs Online 1861-2005/May
         (c) 2005 ProQuest Info&Learning
  File  65:Inside Conferences 1993-2005/May W5
         (c) 2005 BLDSC all rts. reserv.
  File  94:JICST-EPlus 1985-2005/Apr W2
         (c)2005 Japan Science and Tech Corp(JST)
  File  99:Wilson Appl. Sci & Tech Abs 1983-2005/Apr
         (c) 2005 The HW Wilson Co.
  File 144:Pascal 1973-2005/May W4
         (c) 2005 INIST/CNRS
  File 305:Analytical Abstracts 1980-2005/May W4
         (c) 2005 Royal Soc Chemistry
*File 305: Alert feature enhanced for multiple files, duplicate
removal, customized scheduling.  See HELP ALERT.
  File 315:ChemEng & Biotec Abs 1970-2005/Apr
         (c) 2005 DECHEMA
  File 350:Derwent WPIX 1963-2005/UD,UM &UP=200534
         (c) 2005  Thomson Derwent
*File 350: For more current information, include File 331 in your search.
Enter HELP NEWS 331 for details.
  File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
         (c) 2005 JPO & JAPIO
  File 344:Chinese Patents Abs Aug 1985-2005/May
         (c) 2005 European Patent Office
  File 371:French Patents 1961-2002/BOPI 200209
         (c) 2002 INPI.  All rts. reserv.
*File 371: This file is not currently updating. The last update is 200209.
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Set	Items	Description
S1	13857	AU=(NAKANISHI, T? OR NAKANISHI T?)
S2	9	S1 AND PRINT?(2N)(IMAG? OR SUBSTRAT?)
S3	9	RD (unique items)
S4	13848	S1 NOT S2
S5	0	S4 AND (OVERSIZE? OR OVER()SIZE? OR LARGE()SIZE?)(2N)IMAG?
S6	93131	PRINT?(2N)(IMAG? OR SUBSTRAT?)
S7	965	(OVERSIZE? OR OVER()SIZE? OR LARGE()SIZE?)(2N)IMAG?
S8	3022	TRANSPORT?(2N)TRACK? ?
S9	7862	(PRINT? OR UNLOAD? OR UN()LOAD? OR DELIVER?)(2N)STATION? ?
S10	81684	(PRINT? OR MOVE??? OR MOVING)(2N)HEAD? ?
S11	1233	PLATFORM?(2N)(CLAMP? OR GRIP? OR EXPAND?)
S12	4384631	COUPLED OR JOINED OR CONNECTED
S13	58	S6 AND S7
S14	0	S13 AND S8
S15	1	S13 AND S9
S16	57	S13 NOT S15
S17	11	S16 AND S10
S18	11	RD (unique items)
S19	46	S16 NOT S17
S20	0	S19 AND S11
S21	3	S19 AND S12
S22	3	RD (unique items)
S23	0	S7 AND S8
S24	1	S7 AND S9
S25	21	S7 AND S10
S26	0	S25 AND S11
S27	3	S25 AND S12
S28	0	S27 NOT S17,S21,S24
S29	148	S7 AND PRINT?
S30	3	S29 AND (TRANSPORT? OR TRACK? ?)
S31	1	S30 NOT S17,S21,S24,S27
S32	145	S29 NOT S30
S33	4	S32 AND (CLAMP? OR GRIP? OR EXPAND?)
S34	4	RD (unique items)
S35	141	S32 NOT S33
S36	1	S35 AND COUPLED

3/3,AB/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

004782782
WPI Acc No: 1986-286123/198644
XRAM Acc No: C86-123786
XRPX Acc No: N86-213757
Paper for thermal transfer printing - has non-sticking dye receiving layer impregnated with resin and comprises resinous binder contg. pigment
Patent Assignee: HONSHU SEISHI KK (HONP); SONY CORP (SONY)
Inventor: KAWANAO Y; KOUGA D; **NAKANISHI T**; OKAZAKI T
Number of Countries: 006 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 199368	A	19861029	EP 86105771	A	19860425	198644	B
JP 61248791	A	19861106	JP 8590274	A	19850426	198651	
US 4746646	A	19880524	US 86855635	A	19860425	198823	
EP 199368	B	19910206				199106	
DE 3677404	G	19910314				199112	

Priority Applications (No Type Date): JP 8590275 A 19850426; JP 8590274 A 19850426
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 199368	A	E	30		
Designated States (Regional): DE FR GB NL					
EP 199368	B				
Designated States (Regional): DE FR GB NL					

Abstract (Basic): EP 199368 B

Printing paper has a support carrying a dye acceptor layer which comprises (a) a coating of resinous binder contg. uniformly dispersed pigment and (b) a resin, which has good affinity for a sublimable dye, impregnated in the coating. In one embodiment claimed the cumulative pore vol of the layer = 0.2-0.6 cm3/g and the median pore dia. of pigment = 0.2-2.0 micron. In an alternative embodiment claimed the pigment has an oil absorption = 35-140 ml/100g and a median particle dia. = 2-20 micron. The paper receives sublimable dye from a selectively heated dye carrier ribbon.

USE/ADVANTAGE - The paper is used for prepn. of hard copies of video camera and television picture images by thermal transfer. It has good dyeing properties and does not cause sticking between itself and the ribbon. (30pp Dwg.No.1/1)

Abstract (Equivalent): EP 199368 B

A printing paper for thermal transfer **printing** comprising a **substrate**, and a dye acceptor layer formed on one surface of said substrate to receive a sublimable dye transferred from a dye carrier ribbon in contact with said dye acceptor layer upon selective heating of said dye carrier ribbon, said dye acceptor layer consisting essentially of a coating of a resinous binder uniformly dispersing a pigment therein and a resin which has good affinity for the sublimable dye being impregnated in said coating, said dye acceptor layer having a cumulative pore volume of from 0.2 to 0.6 cm3/g and the pigment having a median pore diameter of from 0.2 to 2.0 micronms. (13pp)

Abstract (Equivalent): US 4746646 A

Printing paper (I) for thermal transfer **printing**, comprises a **substrate** and a dye acceptor layer (II), formed on one surface of the substrate, to receive a sublimable dye transferred from a dye

carrier ribbon in contact with layer (II), on selective heating of the ribbon.

Layer (II) comprises a coating of a resinous binder uniformly dispersing a pigment in it, and forming micropores; and a resin which has good affinity for the sublimable dye being impregnated in the coating and uniformly covering the surface of the micropores. Layer (II) has a cumulative pore vol. of 0.2-0.6 cm3/g and the pigment has a median pore dia. of 0.2-2 microns.

ADVANTAGE - (I) has good dyeing property without causing sticking between the paper and a dye carrier ribbon. (8pp)e

3/3,AB/2 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

07822239
METHOD AND DEVICE FOR **PRINTING** CHARACTER **IMAGE** DATA

PUB. NO.: 2003-316533 [JP 2003316533 A]
PUBLISHED: November 07, 2003 (20031107)
INVENTOR(s): **NAKANISHI TAKASHI**
MURATA KAZUYUKI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD
APPL. NO.: 2002-126026 [JP 2002126026]
FILED: April 26, 2002 (20020426)

ABSTRACT

PROBLEM TO BE SOLVED: To use a personal computer at **printing images** or characters indicating information necessary for maintenance/management on the surface of an optical disk.

SOLUTION: A printer 200 receives print instruction command information including **print** attributes, **image** data for label print, and character data for synthesis including the attribute information of characters obtained from an STB 100 through a bus 300, and analyzes those data by a control part 2020 and a synthesis processing part 2021, and compounds the character data with the image data for label print based on the results, and operates rasterization processing to the image character data whose synthesis is completed by the rasterization processing part 2022, and transfers the image character data to a print means 201 to execute print to the surface of an optical disk.

3/3,AB/3 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO

02994559
PRODUCTION OF PRINT-ADHERED NONWOVEN FABRIC

PUB. NO.: 01-292159 [JP 1292159 A]
PUBLISHED: November 24, 1989 (19891124)
INVENTOR(s): **NAKANISHI TERUMI**
APPLICANT(s): JAPAN VILENE CO LTD [352315] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 63-120898 [JP 88120898]

FILED: May 17, 1988 (19880517)
JOURNAL: Section: C, Section No. 687, Vol. 14, No. 74, Pg. 120, February 13, 1990 (19900213)

ABSTRACT

PURPOSE: To obtain the title nonwoven fabric soft feel and high mechanical strength, by jellying a print using a water-soluble polymer capable of forming jelly in the presence of water when contacted with a jellying agent and by transferring the resultant print to a fibrous web to stably apply said print without blur.

CONSTITUTION: A print solution is prepared by mixing an aqueous adhesive with 0.5-5% aqueous solution of a water-soluble polymer (e.g., carboxymethylcellulose). This solution is **printed** on a **substrate** , and the resultant printed surface is laminated with a fibrous web provided with, in advance, a jellying agent to jelly said print. Thence, the resulting laminate is pressed to transfer the print on the laminated fibrous web followed by drying said web, thus obtaining the objective nonwoven fabric.

3/3,AB/4 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO

02090159
PHOTOSENSITIVE BODY

PUB. NO.: 62-007059 [JP 62007059 A]
PUBLISHED: January 14, 1987 (19870114)
INVENTOR(s): YAMAZAKI TOSHIKI
NAKANISHI TATSUO
MARUKAWA YUJI
TAKEUCHI SHIGEKI
NOMORI HIROYUKI
APPLICANT(s): KONISHIROKU PHOTO IND CO LTD [000127] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 60-146162 [JP 85146162]
FILED: July 03, 1985 (19850703)
JOURNAL: Section: P, Section No. 583, Vol. 11, No. 177, Pg. 165, June 06, 1987 (19870606)

ABSTRACT

PURPOSE: To enhance resistances to mechanical damage and **printing**, to eliminate **image** flow, to stabilize image quality, to reduce photofatigue due to repeated uses, and to obtain stable characteristics by successively laminating an electrostatic charge transfer layer, a charge generating layer, an interlayer, and a surface modifying layer.

CONSTITUTION: A charge blocking layer 44 heavily doped with an element group IIIa or Va of the periodic table and containing one of C and N, and O is formed on a conductive substrate drum 41, further, the charge transfer layer 42 lightly doped with an element of group IIIa to make the layer 42 intrinsic, and containing one of C, N, and O, the charge generating layer 43, the interlayer 46 made of amorphous silicon hydride containing C and O, and the surface modifying layer 45 made of amorphous silicon hydride doped with an element of group Va and containing C and N are laminated on the layer 44 to fabricate the photosensitive body 39, thus permitting the adhesion acceptance potential, and film strength of each of the layers 45, 43 to be enhanced, resistances to mechanical damage and printing to be

elevated, stable image quality free from image flow to be obtained, photofatigue due to repeated uses to be reduced, and characteristics to be stabilized

3/3,AB/5 (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO

02090158
PHOTOSENSITIVE BODY

PUB. NO.: 62-007058 [JP 62007058 A]
PUBLISHED: January 14, 1987 (19870114)
INVENTOR(s): YAMAZAKI TOSHIKI
NAKANISHI TATSUO
MARUKAWA YUJI
TAKEUCHI SHIGEKI
NOMORI HIROYUKI
APPLICANT(s): KONISHIROKU PHOTO IND CO LTD [000127] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 60-146161 [JP 85146161]
FILED: July 03, 1985 (19850703)
JOURNAL: Section: P, Section No. 583, Vol. 11, No. 177, Pg. 164, June 06, 1987 (19870606)

ABSTRACT

PURPOSE: To enhance resistances to mechanical damage and **printing**, to eliminate **image** flow, to stabilize image quality, to reduce photofatigue due to repeated uses,and to obtain stable characteristics by successively laminating an electrostatic charge transfer layer, a charge generating layer, an interlayer, and a surface modifying layer.

CONSTITUTION: A charge blocking layer 44 heavily doped with an element group IIIa or Va of the periodic table and containing one of C and N is formed on a conductive substrate drum 41, further, the charge transfer layer 42 lightly doped with an element of group IIIa to make the layer 42 intrinsic, and containing one of C and N, the charge generating layer 43, the interlayer 46 made of amorphous silicon hydride containing C and O, and the surface modifying layer 45 made of amorphous silicon hydride doped with an element of group Va and containing C and N are laminated on the layer 44 to fabricate the photosensitive body 39, thus permitting the adhesion acceptance potential, and film strength of each of the layers 45, 43 to be enhanced, resistances to mechanical damage and printing to be elevated, stable image quality free from image flow to be obtained, photofatigue due to repeated uses to be reduced, and characteristics to be stabilized

3/3,AB/6 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO

02084685
PHOTOGRAPHIC PAPER FOR THERMAL RECORDING

PUB. NO.: 62-001585 [JP 62001585 A]
PUBLISHED: January 07, 1987 (19870107)
INVENTOR(s): **NAKANISHI TOSHIAKI**
KOGA DAIKI
ABE TETSUYA

KAWANO YOSHIHIKO
OKAZAKI TOSHIKI
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP (Japan)
HONSHU PAPER CO LTD [000540] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 60-141874 [JP 85141874]
FILED: June 28, 1985 (19850628)
JOURNAL: Section: M, Section No. 594, Vol. 11, No. 168, Pg. 78, May 29, 1987 (19870529)

ABSTRACT

PURPOSE: To prevent the strike-through of dye from a printed surface, to avoid the bleeding, blurring, etc. of an image and thereby to enable the maintenance of a **printed image** of excellent quality for a long time, by providing a barrier layer checking the transfer of the dye.

CONSTITUTION: A dye accepting layer 13 is provided with interposition of a barrier layer 12 formed on a substrate 11 or a surface containing the substrate 11 itself. The barrier layer 12 is formed by applying resin or a mixture of this resin and a pigment on the substrate 11. As for the resin constituting the barrier layer 12, the resin of which the glass transition temperature is 40 deg.C or above and the water absorption rate (ASTMD-570) 2% or below, such as polysulfone resin or methyl methacrylate resin, for instance, can be used therefor. As for the pigment used in the case when it is contained in the barrier layer 12, calcium carbonate, for instance, of which the equilibrium moisture is 2% or below is used therefore. The amount of coating of the barrier layer 12 is desirably 0.5g/m(sup 2)-20g/m(sup 2) when the layer is formed only of the resin, while said amount is desirably 1g/m(sup 2)-20g/m(sup 2) with the ratio in the amount between the pigment and the resin set to be 4 or below when the layer is composed of the resin and the pigment

3/3,AB/7 (Item 6 from file: 347)
DIALOG(R)File 347:JAPIO

02083085
PRINTING METHOD

PUB. NO.: 61-297185 [JP 61297185 A]
PUBLISHED: December 27, 1986 (19861227)
INVENTOR(s): **NAKANISHI TOSHIAKI**
KAWANO YOSHIHIKO
OKAZAKI TOSHIKI
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP (Japan)
HONSHU PAPER CO LTD [000540] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 60-139778 [JP 85139778]
FILED: June 26, 1985 (19850626)
JOURNAL: Section: M, Section No. 594, Vol. 11, No. 168, Pg. 4, May 29, 1987 (19870529)

ABSTRACT

PURPOSE: To ensure that irregularities in density or unintended shifts of picture elements arising from irregularities in the relative velocities of a thermal head and a printing paper are inconspicuous, by a method wherein the moving direction of a thermal head relative to a printing paper is made

to coincide with the direction in which a dye-receiving layer of the printing paper is applied.

CONSTITUTION: While relatively moving the thermal head 4 in a direction intersecting with the direction of arrangement of a plurality of heating elements 4a, an ink ribbon 3 is selectively heated by the head 4. A pigment layer provided on a base of the printing paper 1 is provided with ridges extending in the direction in which the pigment layer is applied. When the printing paper 1 is so cut that the Y-axis direction coincides with the longitudinal direction, the dye- receiving layer 15 of the sheet form printing paper 1 thus obtained comprise the ridges extending in the Y-axis direction. When an **image** is **printed** on the paper 1, a multiplicity of scanning lines in the X-axis direction are orthogonal to the ridges of the dye-receiving layer 15. Accordingly, the irregularities in density and unintended shifts of picture elements arising from irregularities in the relative velocities of the head and the printing paper become inconspicuous.

3/3,AB/8 (Item 7 from file: 347)
DIALOG(R)File 347:JAPIO

02034691
PHOTOGRAPHIC PAPER FOR THERMAL RECORDING

PUB. NO.: 61-248791 [JP 61248791 A]
PUBLISHED: November 06, 1986 (19861106)
INVENTOR(s): **NAKANISHI TOSHIAKI**
KOGA DAIKI
KAWANO YOSHIHIKO
OKAZAKI TOSHIKI
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP (Japan)
HONSHU PAPER CO LTD [000540] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 60-090274 [JP 8590274]
FILED: April 26, 1985 (19850426)
JOURNAL: Section: M, Section No. 575, Vol. 11, No. 98, Pg. 106, March 27, 1987 (19870327)

ABSTRACT

PURPOSE: To make possible to obtain high developed color density, by forming a coating layer containing pigment having specific average oil absorption and a specific volume average particle size on a support and impregnating said coating layer with a dye acceptor.

CONSTITUTION: A coating layer containing pigment, of which the average oil absorption is 35-140ml/100g and the volume average particle size is 2-20μm, is formed on a support such as high grade paper and impregnated with a dye acceptor, for example, polyester to form a recording layer. By specifying the average oil absorption and volume average particle size of the pigment, the recording layer formed by impregnating the dye acceptor has good dyeability because the dye acceptor, for example, polyester is impregnated in a proper amount and, by forming a proper uneven surface by the pigment particles, thermal fusion is avoided at the time of the **printing** of an **image**. As the pigment to be used, for example, barium sulfate, alumina or plastic pigment white or transparent and having heat resistance can be used. The coating amount of the coating layer is desirably 2-20g/m(sup 2) and the impregnation amount of the dye acceptor in

15/3,AB/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014494588
WPI Acc No: 2002-315291/200235
XRPX Acc No: N02-246795
System for **printing image** on **oversized** media has track with motorized platform moving between **delivery** and **printing stations**
Patent Assignee: NAKANISHI T (NAKA-I)
Number of Countries: 091 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200209946	A1	20020207	WO 2001US22915	A	20010719	200235	B
AU 200182925	A	20020213	AU 200182925	A	20010719	200238	

Priority Applications (No Type Date): US 2000626040 A 20000727
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200209946	A1	E	35	B41J-007/18	

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200182925	A			B41J-007/18	Based on patent WO 200209946

Abstract (Basic): WO 200209946 A1
Abstract (Basic):
NOVELTY - System comprises a transportation system (20) with a track (21), a **printing station** (14) with a moveable print head, an unloading **station** and **delivery station** (16), and a motorized platform (18) receiving the oversized **print substrate** (15) and moving along the track. The print head scans across the **print substrate** perpendicular to the translational motion of the substrate. A clamping device is coupled to an expanding element and a smoothing device has a horizontal bed and elevation device.
DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for a method of **printing** an **image** on **oversized print** media.
USE - System is for printing oversized material for billboards or large scale graphics.
ADVANTAGE - System reduces post-production time.
DESCRIPTION OF DRAWING(S) - The figure shows a printing system with
printing station (14)
print substrate (15)
unloading and **delivery station** (16)
platform (18)
transportation system (20)
track (21)
pp; 35 DwgNo 2/15

JP 2001221976 A 20010817 JP 2000399080 A 20001227 200225
US 20020075462 A1 20020620 US 99476478 A 19991230 200244
US 20020080340 A1 20020627 US 99476478 A 19991230 200245
US 200120624 A 20011207
US 6486937 B2 20021126 US 99476478 A 19991230 200281

Priority Applications (No Type Date): US 99476478 A 19991230; US 200120624 A 20011207
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
DE 10065153 A1 13 H04N-001/23
JP 2001221976 A 10 G02B-027/22
US 20020075462 A1 G03B-027/32
US 20020080340 A1 G03B-027/32 Div ex application US 99476478
US 6486937 B2 G03B-027/32

Abstract (Basic): DE 10065153 A1
Abstract (Basic):
NOVELTY - A sensor detects the start of each lens array (903). A **print** head **prints** mutually linked **image** information onto the lens array sheet. The information is printed in a sequence of strips (220). The width of each strip is less than that of the lens array sheet. Each strip may be printed in a direction parallel to the lens array. Each strip may cover a integer number of lens arrays.
USE - For **printing** stereoscopic **images**, multiple images or moving images.
ADVANTAGE - Prints **large sizes** of **image**.
DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of a layer of medium.
Strips (220)
Lens array (903)
pp; 13 DwgNo 9/13

18/3,AB/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013737844
WPI Acc No: 2001-222074/200123
XRPX Acc No: N01-158512
Printing apparatus e.g. serial printer supplies multicolored information to **printing head** after delaying every printing line sequentially
Patent Assignee: CASIO COMPUTER CO LTD (CASK)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
JP 2001030525 A 20010206 JP 99204566 A 19990719 200123 B

Priority Applications (No Type Date): JP 99204566 A 19990719
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 2001030525 A 16 B41J-002/325

Abstract (Basic): JP 2001030525 A
Abstract (Basic):
NOVELTY - A thermal head (3) is arranged corresponding to width of multicolored ink ribbon having multicolored ink with a width equal to width of printing line. The thermal head transfers multicolored ink to

recording paper during longitudinal movement of ribbon. Multicolored printed information on memory is supplied to **printing head** by delaying every printing line sequentially.

DETAILED DESCRIPTION - The multicolored ink is parallely established to width direction of the ribbon. The line feed paper is sent only to a specific distance equivalent to width of printing line in the length direction of **printing head**. The multicolored **printed** information consists of multiple printing line. Each printed information is supplied in parallel to **printing head** which corresponds multicolored ink.

USE - Printing apparatus e.g. serial printer.

ADVANTAGE - Each ink area of multicolored ink ribbon is continuously used along the longitudinal direction of ribbon irrespective of size of **printing image**. So multicolored ribbon is used without any wastage. **Image** of **large size** is printed and printing time is shortened.

DESCRIPTION OF DRAWING(S) - The figure shows diagram of relationship of ribbon and **printing head**.

Thermal head (3)

pp; 16 DwgNo 2/8

18/3,AB/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

011888713

WPI Acc No: 1998-305623/199827

XRPX Acc No: N98-240063

Ink-jet printer with two-way scanning **print head** - has recording head which records next image data in recording medium, in direction opposite to main scanning direction, after completion of first recording operation

Patent Assignee: CANON KK (CANO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 10109408	A	19980428	JP 96264082	A	19961004	199827	B

Priority Applications (No Type Date): JP 96264082 A 19961004

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10109408	A		14	B41J-002/01	

Abstract (Basic): JP 10109408 A

The printer has a conveyor that conveys a recording medium in sub-scanning direction. A recording head (107) scans along a main scanning direction and the image data is recorded in the recording medium. A provision request signal for producing image data is sent to an image processing unit (106) from a provision request unit (102a).

Based on received provision request signal, the image data is sent to the recording head. The recording head records the next image data in recording medium in a direction opposite to main scanning direction, after completion of first recording operation.

ADVANTAGE - **Prints large size image** data, efficiently. Improves printing speed.

Dwg.1/8

18/3,AB/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

011492320
WPI Acc No: 1997-470233/199743
Related WPI Acc No: 1995-228035
XRPX Acc No: N97-392361
Sheet transport control for ink jet printer, facsimile, copier - controls sheet transporter and **head moving** mechanism for large sized or high speed printing modes
Patent Assignee: MITA IND CO LTD (MTAI)
Inventor: BABA K; HORI S; KAWACHI Y; KOYAMA S; SATAKE K; TSUJI K; WATANABE T
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5668581	A	19970916	US 94327833	A	19941024	199743	B

Priority Applications (No Type Date): JP 93292042 A 19931122; JP 93268819 A 19931027; JP 93285162 A 19931115
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5668581	A		67	B41J-002/215	

Abstract (Basic): US 5668581 A

The printing sheet transport assembly transports a small, medium or large A0 or A1-sized sheet. Sheet transport feed rollers dispense the sheets from cassettes and transport them to the printer. Registration rollers transport the sheet in timed relation with the printing operation. An endless transport belt driven by a transport belt motor (383), advances the sheet to the printing appts. It holds the sheet by electrostatic or air vacuum.

A printing sheet transport control portion (812) controls the drive circuit (83) to drive the transport assembly to feed a sheet. Simultaneously the drive circuit drives a head rotating motor (521). It rotates the **printing head**, pivotal about the axis of a stem shaft. The head is rotatable in a vertical plane perpendicularly intersecting nozzle arrays and in vertical plane parallel intersecting nozzle arrays. For large size printing mode, transport and staying of the sheet are alternately executed at specified intervals. For high speed **printing** mode, the **head** rotating motor is driven to rotate the head by 90 degrees. It sets the nozzle array perpendicular to the sheet transport direction so the sheet is transported at constant speed.

USE/ADVANTAGE - For **printing large sized image**, high speed **printing**, easy change of printing mode.

Dwg.6/44

18/3,AB/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

010808301
WPI Acc No: 1996-305254/199631
XRPX Acc No: N96-256711
Thermal **print head** for thermosensitive **printing** e.g. graphic plotter - has support substrate which fixes position of heat emission substrates arranged sequentially in patch plates
Patent Assignee: TOSHIBA DENSHI ENG KK (TOSN); TOSHIBA KK (TOKE)
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 8132660	A	19960528	JP 94274613	A	19941109	199631	B

Priority Applications (No Type Date): JP 94274613 A 19941109

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8132660	A		4	B41J-002/345	

Abstract (Basic): JP 8132660 A

The **print head** (10) arranges several heat emitting bodies (16-18) in a sequence, which connect to two or more heat emission substrates (20-22) adjoined to several patch plates (23,24). A support substrate (27) fixes the position of the heat emission substrates in the longitudinal direction and prevents the substrates from slipping.

ADVANTAGE - Equalises arrangement of heat emitting body covering full length of longitudinal direction; improves clarity of **large sized printed image.**

Dwg.1/5

18/3,AB/7 (Item 1 from file: 347)

06994396

METHOD AND DEVICE FOR PRINTING **LARGE SIZED** LENTICULAR **IMAGE**

PUB. NO.: 2001-221976 [JP 2001221976 A]
PUBLISHED: August 17, 2001 (20010817)
INVENTOR(s): KESSLER DAVID
MORTON ROGER A
TREDWELL TIMOTHY J
APPLICANT(s): EASTMAN KODAK CO
APPL. NO.: 2000-399080 [JP 2000399080]
FILED: December 27, 2000 (20001227)
PRIORITY: 99 476478 [US 99476478], US (United States of America), December 30, 1999 (19991230)

ABSTRACT

PROBLEM TO BE SOLVED: To provide a method and a device for printing a **large-sized** lenticular **image.**

SOLUTION: In the method and device printing the **large-sized** lenticular **image** on the lenticular sheet (902) which has a plurality of generally parallel lenticule (903) on the front side, the device has a sensor (209) to detect the beginning of each lenticule (903). A **print** head (102) **prints image** information interleaved on the lenticular sheet (902) in a series of belt-like objects (220). The width of each belt-like object (220) is shorter than the width of the lenticular sheet (902). In one embodiment, each belt-like object (220) is printed in the parallel direction to the lenticule (903). In another embodiment, each belt-like object (220) is printed in the vertical direction to the lenticular.

18/3,AB/8 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO

06956200
PRINTING HEAD AS WELL AS PRINTING DEVICE AND PRINTING METHOD

PUB. NO.: 2001-183752 [JP 2001183752 A]
PUBLISHED: July 06, 2001 (20010706)
INVENTOR(s): NISHIKAWA HIDETOSHI
APPLICANT(s): NORITSU KOKI CO LTD
APPL. NO.: 11-370945 [JP 99370945]
FILED: December 27, 1999 (19991227)

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **printing head**, **printing** device and printing method which do not give rise to the color drifts in the respective pixels of **printed** images and can **print** the **images** to **large-sized** photographic paper with the printing device of a type to simultaneously irradiate the photographic paper with multiple monochromatic light.

SOLUTION: The **printing head** has an LCS 4 which modulates the light from a light source section 1 by each of the different pixel parts corresponding to the respective color components by the color components and a prism 2 which is disposed on the optical path between the LCS 4 and the photographic paper P and changes the optical path of the light described above. The prism 2 spectrally splits the light in accordance with the refractive indices intrinsic to the respective color components. The light source section 1, the LCS 4 and the prism 2 are so arranged that the light rays of the respective color components emitted from the LCS 4 progress in the direction reverse from the direction in the spectroscopy on the spectral optical path in the prism 2 of the respective corresponding color components, by which the light rays are made incident on the prism 2 and are emitted therefrom.

18/3,AB/9 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO

06782553
APPARATUS AND METHOD FOR PRINTING

PUB. NO.: 2001-010029 [JP 2001010029 A]
PUBLISHED: January 16, 2001 (20010116)
INVENTOR(s): ARAI ATSUSHI
APPLICANT(s): CANON INC
APPL. NO.: 11-180157 [JP 99180157]
FILED: June 25, 1999 (19990625)

ABSTRACT

PROBLEM TO BE SOLVED: To inexpensively provide an ink jet printer capable of suitably dealing with various requests such as rapid printing of a monochromic **image**, **printing** of a color image of a high quality

level, an **image** of a **large size**, a high quality level of a printing medium for obtaining a photographic style image of a gloss sheet, a gloss film or the like.

SOLUTION: A **print head** 11 obtained by arranging a plurality of printing elements is disposed so that an array of the elements is seen as a high density in seeing from a first direction (a direction A) as compared with seeing from a second direction (a direction B) perpendicular to the direction A. Thus, a first printing operation for conducting by conveying a printing medium P1 in the first direction and a second printing operation for conducting by relatively scanning the head 11 in the second direction to a printing medium P2 can be selectively executed.

18/3,AB/10 (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO

05177160
THERMAL **PRINT HEAD**

PUB. NO.: 08-132660 [JP 8132660 A]
PUBLISHED: May 28, 1996 (19960528)
INVENTOR(s): TAKEUCHI HIDEMI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)
TOSHIBA ELECTRON ENG CORP [486766] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-274613 [JP 94274613]
FILED: November 09, 1994 (19941109)

ABSTRACT

PURPOSE: To improve the quality of a **large-sized print image** by making the disposition of a heating element uniform along the entire longitudinal direction in a long thermal **print head**.

CONSTITUTION: Adjacent substrates 20 to 22 are connected by joint plates 23, 24 thereby to prevent the deviations of the substrates 20 to 22 on a support board 27 at the times of regulating a surface step and thermally adhering thermoset adhesive, and hence to obtain the uniform dispositions of heating elements 15 to 18, thereby improving the image quality

18/3,AB/11 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO

04971756
ADJUSTING METHOD FOR **PRINT HEAD**

PUB. NO.: 07-264356 [JP 7264356 A]
PUBLISHED: October 13, 1995 (19951013)
INVENTOR(s): OTAKI NOBORU
YOSHIDA KAZUYOSHI
INOUE HIROYUKI
OGATA HIDEICHIRO
APPLICANT(s): OKI ELECTRIC IND CO LTD [000029] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 06-050608 [JP 9450608]
FILED: March 22, 1994 (19940322)

ABSTRACT

PURPOSE: To obtain a device preventing the generation of a non-printing part and printing deviation when plural **print heads** are used and **printing** an **image** on a **large-size** display medium.

CONSTITUTION: Plural **print heads** 8a to 8d outputting images to a display medium 1 are arranged alternately in a scanning direction and in a zigzag shape. By printing reference lines on the display medium 1 by each of **print heads** 8a to 8d and reading these reference lines by an image sensor 29, the deviation amount of the reference lines from the reference locations in the horizontal scanning direction and the vertical scanning direction is investigated. Based on the deviation amount, the data transfer timing to the plural **print heads** 8a to 8d is controlled. Thus, the printing deviation of the horizontal scanning and vertical scanning directions of the plural **print heads** 8a to 8d is automatically adjusted.

22/3,AB/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015622454
WPI Acc No: 2003-684625/200365
XRPX Acc No: N03-546655
Color image forming method in color laser printer, involves dividing color image data of multicolor toner several times with respect to each color plane, during image developing process
Patent Assignee: CANON KK (CANO)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2003228221	A	20030815	JP 200225992	A	20020201	200365	B

Priority Applications (No Type Date): JP 200225992 A 20020201
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2003228221	A		8	G03G-015/01	

Abstract (Basic): JP 2003228221 A
Abstract (Basic):
NOVELTY - The latent image formed on a photoconductive drum, is developed based on color image data of multicolor toner. The color image data of each color plane is divided several times during image developing process. The obtained toner image is finally transferred to a recording paper.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) color image forming apparatus;
(2) color image forming program; and
(3) computer readable recorded medium storing color image forming program.
USE - For forming color images using color image forming apparatus (claimed) e.g. color laser printer and inkjet printer **connected** to host computer.
ADVANTAGE - Allows use of memory of reduced size for **printing large-sized image** data. Hence restrains cost of the image forming apparatus.
DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining the color image formation method. (Drawing includes non-English language text).
pp; 8 DwgNo 5/6

22/3,AB/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013275993
WPI Acc No: 2000-447913/200039
XRPX Acc No: N00-334673
Image synthesis and enlargement apparatus, synthesizes overlapping data according to operation mode and enlargement rate to output enlarged image data to **image printer**
Patent Assignee: TECH MARKETING RES KK (TEMA-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2000165660	A	20000616	JP 98335847	A	19981126	200039	B

Priority Applications (No Type Date): JP 98335847 A 19981126
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000165660	A		4	H04N-001/393	

Abstract (Basic): JP 2000165660 A
Abstract (Basic):

NOVELTY - A scanner (1) is used to read the original document. The read image data is designated individually in overlapping manner and is stored in compressed form in memory (4) in specific order. By simultaneous parallel processing, the overlapping data is scanned and synthesized according to the operation mode and enlargement rate to output enlarged image data to **image printer** in real time.

USE - For synthesizing and enlarging **image** to produce **large-sized** poster with variable data such as date, hall and logo using **image printer connected** to personal computer.

ADVANTAGE - Enables producing large-sized poster with variable information without using PC. Shortens output time of enlarged image data by effective synthesizing.

DESCRIPTION OF DRAWING(S) - The figure shows block diagram of image synthesis and enlargement apparatus.

Scanner (1)
Memory (4)
pp; 4 DwgNo 1/2

22/3,AB/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013113798
WPI Acc No: 2000-285669/200025
XRPX Acc No: N00-215113
Photograph apparatus in studio, includes photograph camera and digital still camera which are **connected** such that operation of shutter and stroboscope of both cameras are interlocked
Patent Assignee: KONICA CORP (KONS)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2000066296	A	20000303	JP 98234308	A	1998082	200025	B

Priority Applications (No Type Date): JP 98234308 A 19980820
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000066296	A		7	G03B-017/24	

Abstract (Basic): JP 2000066296 A

NOVELTY - The photographic camera (A) (8) carries out magnetic recording onto photographic film. The digital still camera (B) (9) is **connected** with magnetic recording head of the photographic camera. The operation of shutter and stroboscope of the photographic camera (A) is interlocked with operation of shutter and stroboscope of digital still camera, respectively DETAILED DESCRIPTION - In-between magnetic recording head of camera (A) and digital still camera (B), an information retrieval apparatus (C) with information input mechanism

and index print display mechanism is arranged. The photographic apparatus has **large-sized image** monitor apparatus.
INDEPENDENT CLAIMS are also included for the following: (i) Photograph camera which has magnetic head. The magnetic head magnetically records data onto the photographic film. (ii) Photograph collation system which compares the image taken by the photograph camera (A) and image taken by photograph camera (B), after recording the photograph number information, customer information, photography condition information and image correction information into the photographic film.

USE - In studio.

ADVANTAGE - Photograph specification operation is intelligible, thereby increases utilization efficiency. Reduces print delivery period, since under management of photography number information, the print indication of required frame by photography number can also be performed simultaneously. Important information for print is made easily without repeating rehash. Facilitates to produce optimum **print**, since **image** concentration correction and color correction are added based on state of negative film. Avoids degradation in quality of color photography currently implemented in photography studio using simple technique. DESCRIPTION OF DRAWING(S) - The figure depicts top view showing photograph apparatus. (8) Photographic camera; (9) Still camera.

Dwg.6/8

31/3,AB/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

02000025 INSPEC Abstract Number: B83012429, C83010802
Title: Automatic digitizing and processing method for the **printed** circuit pattern drawings
Author(s): Takagi, M.; Konishi, T.; Yamada, M.
Author Affiliation: Inst. of Industrial Sci., Univ. of Tokyo, Tokyo, Japan
Conference Title: Proceedings of the 6th International Conference on Pattern Recognition p.713-16 vol.2
Publisher: IEEE, New York, NY, USA
Publication Date: 1982 Country of Publication: USA 2 vol. xxix+1241 pp.
U.S. Copyright Clearance Center Code: CH1801-0/82/0000/0713 $00.75
Conference Date: 19-22 Oct. 1982 Conference Location: Munich, West Germany
Language: English
Abstract: An automatic recognition and processing algorithm for **printed** circuit pattern drawings, which are hand-drawn on graph papers and composed of lines and circular arcs, is proposed. At first, pattern drawings are tracked with a 9*9 mask, using the original 8 bits gray data, to **track** even the faded parts successfully. Next, partitioned domain processing is developed to handle a **large size image** . This method has advantages in sequential tracking processing, small memory capacity and saving data access time. After that, the chain-coded data obtained through the above processing are transformed into the lines and circular arcs. Finally, the hierarchical, dynamic and relational data structure for efficient editing operation by interactive processing is studied.
Subfile: B C

34/3,AB/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012536895
WPI Acc No: 1999-343001/199929
XRPX Acc No: N99-257523
Recording controller of **printer** - divides original document image read by reader into two images, when size of original document is twice that of pamphlet to be **printed**
Patent Assignee: CANON KK (CANO)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 11125992	A	19990511	JP 97288721	A	19971021	199929	B

Priority Applications (No Type Date): JP 97288721 A 19971021
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11125992	A		8	G03G-015/36	

Abstract (Basic): JP 11125992 A
NOVELTY - A controller (104) divides a read document image into two images, when the size of the document is twice the size of a pamphlet to be **printed**. The divided images stored in a hard disk (108), are **expanded** by a controller (103) and is stored in pagewise order in a memory (107). The images are then read from the memory and **printed** on center of either sides of the pamphlet. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for recording control method.
USE - For **printer**.
ADVANTAGE - Enables to divide and **print large sized** original document **image** on both sides of pamphlet, automatically. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the recording controller. (103,104) Controller; (107) Memory; (108) Hard disk.
Dwg.1/9

34/3,AB/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009980846
WPI Acc No: 1994-248560/199430
XRPX Acc No: N94-196364
Image reproduction machine **expanded** area **printing** - feeding folded sheet front end portion first through machine for **printing** first portion and re-feeding folded sheet in flipped orientation for **printing** second portion
Patent Assignee: COMPAQ COMPUTER CORP (COPQ)
Inventor: SELLERS C A
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5335005	A	19940802	US 92851848	A	19920316	199430	B

Priority Applications (No Type Date): US 92851848 A 19920316
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5335005	A		9	G01D-015/04	

Abstract (Basic): US 5335005 A

The method involves the steps of: transmitting the **oversized image** to the machine, then folding the oversized sheet to form therefrom a folded sheet having a front end edge portion, a rear end portion, a side fold edge portion, and first outer side surface and second outer side surfaces opposite the first outer side surface.

The method also entails feeding the folded sheet, front end portion first, through the machine and concurrently causing the machine to imprint a first portion of the received **oversized image** upon the first outer side surface of the folded sheet and then re-feeding the folded sheet, in a flipped orientation, through the machine and concurrently causing the machine to imprint a second portion of the received **oversized image** upon the second outer side surface of the folded sheet.

USE/ADVANTAGE - In image reproduction appts, e.g. **printers** and copiers, pref to paper feed and image imprinting control aspect. Provision for laser **printer** to **print** image larger than size of paper.

Dwg.1/6

34/3,AB/3 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

06817960
IMAGE TRANSMITTER

PUB. NO.: 2001-045453 [JP 2001045453 A]
PUBLISHED: February 16, 2001 (20010216)
INVENTOR(s): NAKAO FUMIAKI
APPLICANT(s): KYOCERA CORP
APPL. NO.: 11-217018 [JP 99217018]
FILED: July 30, 1999 (19990730)

ABSTRACT

PROBLEM TO BE SOLVED: To obtain image information that can sufficiently support display of a **large-sized image** pattern or **printing** or the like by controlling picked-up image information to be transferable during call connection processing and controlling the image information to be displayable in the case of receiving the image information during the call connection processing.

SOLUTION: A program, which is used to compress image information from an operating processing between its call transmission and its reply, to transmit the compressed image information and to **expand** received image information and to display it, is written in a ROM 15 or an EEPROM 16 and a control section 13 reads the program in the case of call transmission or call reception and uses it for its control. After conducting a call control, a caller side terminal (A) transmits its image transmission capability and a called party terminal (B) transmits its image transmission capability. An optimum image transmission capability is decided on the basis of both the image transmission capabilities and an acknowledgement message is transmitted.

34/3,AB/4 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO

05625293
SHEET CONVEYING APPARATUS

PUB. NO.: 09-240093 [JP 9240093 A]
PUBLISHED: September 16, 1997 (19970916)
INVENTOR(s): KAWAMURA IWAO
NISHIMURA KAZUHIRO
MURAKAMI KAZUHIRO
INOTSUMA KENSUKE
KIYOHARA NAOKI
SASAME SATORU
SUZUKI TATSUMA
NAMEKATA SEIICHI
APPLICANT(s): COPYER CO LTD [399485] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 08-046071 [JP 9646071]
FILED: March 04, 1996 (19960304)

ABSTRACT

PROBLEM TO BE SOLVED: To easily convey a sheet by preventing the turn-up of the sheet in a **large size image** forming apparatus or to particularly effectively convey the sheet in the **printing** step to be conducted in a limited space of approached **printing** head and a sheet conveying apparatus by making it possible to ensure the minimum margin of the sheet like, for example, in an ink jet type image forming apparatus.

SOLUTION: A band-like **expandable** and contractible extended sheet guide 23 or extended sheet retainer stored in an extended sheet guide unit 17 provided out of an image area is extended between first and second conveying rollers to guide the sheet conveyance so as to convey a sheet, and the conveyed sheet is sandwiched between the first and second rollers, and the guide 23 or the retainer is stored in the unit 17.